



JOB PERFORMANCE REPORT, PROJECT F-73-R-12 Job No. 2

SALMON AND STEELHEAD INVESTIGATIONS Estimate 1988-89 Steelhead Survey Harvest and Effort (Telephone Survey)



Ву

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June 1990

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JOB PERFORMANCE REPORT

State of: Idaho Name: Salmon and Steelhead Investigations

Project No.: F-73-R-12 Title: Estimate 1988-89 Steelhead Season

Harvest and Effort (Telephone Survey)

Job: 2

Period Covered: March 1, 1989 to February 28, 1990

ABSTRACT

An estimated total of 32,405 anglers out of 51,493 steelhead permit holders fished 175,187 days in the fish run year 1988-1989. The estimated number of steelhead landed by anglers reached an estimated 63,809 fish. Anglers harvested 23, 521 hatchery steelhead, while releasing 40,288 steelhead composed of 66% wild fish and 34% hatchery steelhead.

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OBJECTIVE

To obtain fall 1988 to spring 1989 steelhead harvest estimates by major drainage.

TECHNIQUES USED

Fall and spring steelhead catch, harvest, and fishing effort estimates were obtained from a telephone survey, as reported by Pollard (1985). A random sample of 5,427 (17.5%) of the 31,011 steelhead permit holders and nonresident salmon and steelhead 3-day permit holders in 1988 was obtained from the State Auditor's IBM mainframe computer using a SAS (Statistical Analysis Systems 1982) program in March 1988 for the fall survey. Later, in July 1988, another random sample of 3,584 (17.5%) of 20,482 steelhead permit holders from the 1989 spring season was obtained by the same method.

Each permit holder selected for the survey was mailed a letter explaining the purpose of the survey and the questions to be asked (Appendix I). The letter was followed within two weeks by a phone call. Telephone interviewers were trained to solicit complete replies and read from a standard script (Appendix II) so the same questions were asked of each permit holder in the same manner. A list of names of fishing holes was also provided to the interviewers so the correct river section fished could be determined (Appendix III).

A maximum of four tries to contact each sampled permit holder within one month were performed to increase the number of respondents. Each completed telephone response, or completed survey letter, was entered in IBM compatible personal computers using the Ashton-Tate software dBase III+. Manipulation of the data was accomplished within dBase III+ files using Clipper by Nantucket to compile the programs for faster execution. The estimates of fishing pressure and harvest were accomplished using LOTUS and SYSTAT.

FINDINGS

Fall Season

The fall steelhead fishing season in 1988 was open from September 1 through December 31. Daily bag limits allowed 2 fish per day, 4 in possession, and 6 per season depending on the river drainage (Appendix IV). Anglers were required to release wild steelhead, as determined by the presence of an adipose fin.

A total of 31,011 steelhead permits were sold for 1988. Of the 5,427 permit d were contacted during the fall

expanded estimates for resident and nonresident permits were 25,460 N· 465) and 5, 551 (+ 465), respectively.

A total of 18,213 (58.7%) permit holders fished for steelhead in the fall of 1988 (Table 1), with 14,558 residents (57.2%) and 3,655 nonresidents (65.7%). Anglers fishing more than one river section was estimated to be 3,220.

Total effort for fall 1988 was 97,738 (\pm 6,169) days (Tables 1, 2). Resident anglers fished 80,170 days, while nonresidents fished 17,568 days (Appendices V and VI). The mean number of days fished for all permit holders was 3.2 (\pm 0.2), with no significant difference between residents or nonresidents. Excluding permit holders that did not fish resulted in an estimated average number of days fished of 5.4 (\pm 0.3). For all distributions (resident, nonresident, and combined), a mode of two days fished occurred (Figure 1).

Anglers who fished and caught at least one fish was 7,873 (43.2%), with resident anglers at 6,004 (41.2%) and nonresidents at 1,714 (46.9%). The mean catch per angler was 2.1 fish $_{\rm N.}$ 0.3) per season. The distributions for the percentage of anglers and the number of fish caught are given in Figure 2.

An estimated 13,718 (\pm 1,176) steelhead were harvested in the fall of 1988. Residents harvested a total of 10,764 steelhead, while nonresidents harvested 2, 954. The distribution of the number of fish harvested by all anglers is shown in Figure 3. The mean number of steelhead kept per angler was 0.75 fish (\pm 0.06). No significant difference between resident and nonresident anglers was found.

The greatest pressure (40,941 days) and the largest harvest (6,274) by drainage occurred in the Clearwater River. The Salmon drainage had the greatest number of fish caught and released (12,434). November was the most productive fall month in all drainages, resulting in 6,746 fish being harvested (5,323 by residents and 1,423 by nonresidents) (Table 3, Appendix VII, Appendix VIII). The highest overall catch rate occurred on Salmon River sections, with an average of 2.3 days per fish.

Anglers released 24,750 steelhead (7,717 hatchery and 17,033 wild). This pattern of releasing more fish than harvesting is similar to the previous four years.

Spring Season

The spring steelhead fishing season in 1989 was open from January 1 through April 30, depending on section. Daily bag limits allowed 2 fish per day, 2 or 4 in possession, and 6 or 10 per season, depending on the river drainage (Appendix IX). Also in the spring of 1989, anglers were required to release wild steelhead, as determined by the presence of an adipose fin.

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Table 1. Estimate angler participation and harvest in the Idaho fall steelhead fishery, 1988

Total number of anglers:	31,011
Residents sampled:	2,806
Nonresidents samples:	613
Total sampled:	3,419

	ESTIMATE	UPPER CONFIDENCE INTERVAL	LOWER CONFIDENCE INTERVAL
Number that did fish:	18,213	18,796	17,617
Resident:	14,558	15,090	14,016
Nonresident:	3,655	3,890	3,404
Number that used a guide:	2,313	2,642	
Resident:	1,460	-	
Nonresident:	853	1,048	682
Number of days fished:	97,738	103,907	91,569
Resident:	80,170	85,930	74,410
Nonresident:	17,568	19,776	15,360
Number anglers that caught:	7,873	· ·	-
Resident:	6,159		•
Nonresident:	1,714	1,955	1,482
Number of hatchery fish released:	7,717		•
Resident:	6,004		3,695
Nonresident:	1,713	2,603	823
Number of wild fish released:	17,033	19,498	•
Resident:	13,687	15,967	11,407
Nonresident:	3,346	4,284	2,408
Total number fished released:	24,750	29,258	·
Resident:	19,691		15,463
Nonresident:	5,059	6,621	3,497
Total number fished kept:	13,718		
Resident:	10,764	11,809	9,719
Nonresident:	2,954	3,493	2,415

Table 2. Total number steelhead anglers (resident and nonresident), days fished, fish caught, and catch rate in fall 1988 by section and drainage.

SECTION	ANGLERS	DAYS FISHED	HATCHERY FISH RELEASED	WILD FISH RELEASED	FISH HARVESTED	FISH PER DAY	
1 2	2,313 1,016	12,326 4,544	644 408	2,521 345	1,598 672	0.386 0.314	
SNAKE TOTALS	3,329	16,870	1,052	2,866	2,270	0.367	
3 4 5 6 7	7,075 880 553 190 72	34,494 3,283 2,104 734 326	2,812 118 217 9 0	4,725 345 109 63 0		0.375 0.290 0.284 0.233 0.000	
CLEARWATER TOTALS	8,770	40,941	3,156	5,242	6,274	0.358	
10 11 12 13 14 15 16 17 18 19 20	1,134 1,424 1,161 554 1,052 3,302 662 308 63 154 100	5,107 5,768 3,891 1,442 4,218 14,340 2,603 1,233 463 372 372	244 998 354 91 353 1,152 218 27 0 63 9	744 1,560 1,125 290 1,769 2,757 517 127 0	543 443 153 852 2,286 290 45 0	0.293 0.538 0.494 0.370 0.705 0.432 0.394 0.161 0.000 0.315 0.121	
SALMON TOTALS	9,914	39,809	3,509	8,925	5,174	0.442	
OXBOW BOISE R.	0 9	118	0	0		0.000	
STATEWIDE TOTALS	22,022	97,738	7,717	17,033	13,718	0.394	

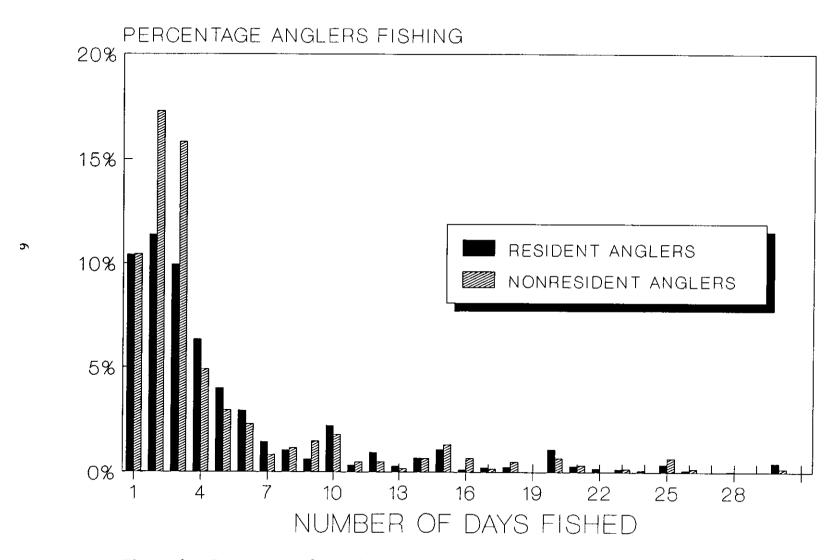


Figure 1. Percentage of resident and nonresident steelhead anglers fishing a given number of days, fall 1988.

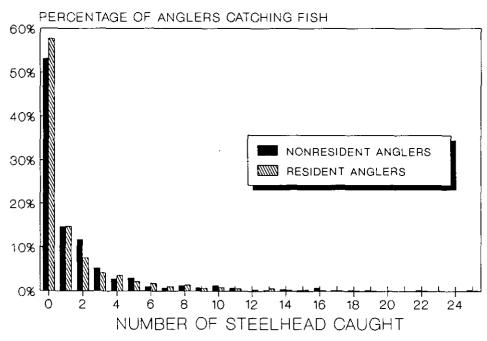


Figure 2. Percentage of resident and nonresident anglers catching a given number of steelhead, fall 1988.

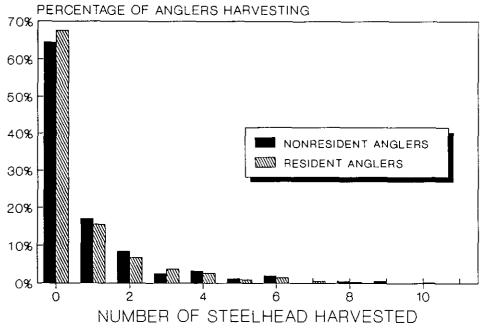


Figure 3. Percentage of resident and nonresident anglers harvesting a given number of steelhead, fall 1988.

Table 3. Total number of steelhead harvested in fall 1988 for resident and nonresident anglers by section and month.

FISH HARVESTED

		FISH HARVESIED								
SECTION	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL					
1	82	381	681	454	1,598					
2	9	118	263	282	672					
SNAKE TOTALS	91	499	944	736	2,270					
3	209	1,361	2,666	1,179						
4	0	136	308							
5	0	36	190	45	271					
6	0	63	18	18	99					
7	0	0	0	0	0					
CLEARWATER										
TOTALS	209	1,596	3,182	1,287	6,274					
10	54	182	190	82	508					
11	27	217	245	54	543					
12	0	172	208	63	443					
13	36	54	63	0	153					
14	0	308	526	18	852					
15	27	916	1,216	127	2,286					
16	9	109	136	36	290					
17	0	27	18	0	45					
18	0	0	0	0	0					
19	0	9	9	9	27					
20	0	18	9	0	27					
SALMON										
TOTALS	153	2,012	2,620	389	5,174					
OXBOW	0	0	0	0	0					
BOISE	0	0	0	0	0					
STATEWIDE										
TOTALS	453	4,107	6,746	2,412	13,718					

survey. The sample was composed of 1,683 (85%) residents and 297 (15%) nonresidents. An estimate of the composition of steelhead angler population was 85% (\pm 1.8%) residents and 15% (\pm 1.8%) nonresidents. The expanded estimates for resident permits was 17,410 (\pm 374) and for nonresident permits, 3,072 (\pm 374).

A total of 14,192 (69.3%) permit holders fished for steelhead in the spring of 1989 (Table 4), with 11,730 residents (67.4%) and 2,462 nonresidents (80.1%), respectively. Anglers fishing more than one river section was 2,927 (20.6%).

Total effort was 77,449 (\pm 5269) angler days (Tables 4, 5), with resident anglers with 67,271 days, and nonresidents with 10,178 days (Appendices X and XI). The mean number of days fished (including the anglers that did not fish) was 3.8 (\pm 0.3). With nonparticipants excluded, the mean number of days fished in the spring was 5.5 (\pm 0.4). A significant difference between mean days for residents (5.7) and nonresidents (4.1) was found. A mode of two days occurred for residents, while a mode of three days occurred for nonresidents (Figure 4).

The number of anglers catching at least one fish was 5,472 (38.6%). The number of resident and nonresident anglers meeting the same criteria was 4,479 (38.2%) and 993 (40.3%), respectively (Figure 5). The catch was 1.8 fish/angler (\pm 0. 3).

The steelhead harvest in the spring of 1989 was 9,803 (\pm 936), with resident harvest at 7,923 steelhead and nonresident harvest at 1,880. There was no difference in harvest distributions of resident and nonresident anglers (Figure 6). The mean spring harvest of steelhead was 0.69 fish/angler (\pm 0.08). A difference of . 09 fish/angler between resident (.67) and nonresident (.76) harvest rates was not significant.

The Salmon River provided for the greatest effort (35,379 days) and the highest number of fish caught (12,825 including the catch-and-release fish). March was the most productive spring month in all drainages, resulting in 4,479 fish being harvested (3,518 by residents and 961 by nonresidents) (Table 6, Appendices XII and XIII). The highest overall catch rate occurred on the Snake River, with an average of 1.1 fish/day for nonresident anglers. However, residents had their best catch rate (0.36 fish/day) in the Salmon River sections.

Anglers released 15,538 steelhead (5,834 hatchery and 9,704 wild) while harvesting 9,803. This pattern of releasing more fish than harvesting is similar to the previous four years.

SUMMARY

For fish run year 1988-1989, a total of 175,187 angler days were expended by 32,405 anglers, yielding a harvest of 23,521 steelhead. This is the third lowest harvest since fish run year 1981-1982 (Table 7) and is correlated with the low run size due to a drought during upstream migration (Figure 7).

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Table 4. Estimated angler participation and harvest in the Idaho spring steelhead fishery, 1989

Total number of anglers:	20,482
Residents sampled:	1,683
Nonresidents samples:	297
Total sampled:	1,980

	ESTIMATE		CONFIDENCE
Number that did fish: Resident: Nonresident:	11,730	14,663 12,171 2,610	11,269
Number that used a guide: Resident: Nonresident:	579 434 145	606	297
Number of days fished: Resident: Nonresident:	77,449 67,271 10,178	72,394	62,148
Number anglers that caught: Resident: Nonresident:	5,472 4,479 993	4,906	4,065
Number of hatchery fish released: Resident: Nonresident:	5,834 5,028 806	7,045	•
Number of wild fish released: Resident: Nonresident:	9,704 8,276 1,428	9,837	6,715
Total number fished released: Resident: Nonresident:	15,538 13,304 2,234	16,251	
Total number fished kept: Resident: Nonresident:	9,803 7,923 1,880	8,891	•

Table 5. Total number of resident and nonresident steelhead anglers, days fished, fish caught, and catch rate in spring 1989 by section and drainage.

SECTION	ANGLERS	DAYS FISHED	HATCHERY FISH RELEASED	WILD FISH RELEASED	FISH HARVESTED	FISH PER DAY
1 2	610 434	2,958 1,448	0 352	383 393		0.24
SNAKE TOTALS	1,044	4,406	352	776	506	0.37
3 4 5 6 7	3,051 766 1,728 507 580	15,734 2,710 7,396 2,845 4,241		1,604 259 579 82 134	1,500 269	0.32 0.20 0.43 0.14 0.29
CLEARWATER TOTALS	6,632	32,926	2,421	2,658	5,297	0.32
10 11 12 13 14 15 16 17 18 19	279 796 444 155 496 2,006 1,459 1,500 983 1,252 269	1,644 2,493 1,293 776 2,049 6,776 5,524 6,496 3,652 3,724 952	41 248 41 124 207 1,169 93 248 321 238 52	186 518 166 166 942 1,645 600 703 693 517	145 113 21 320 775 342 765 320 485	0.31 0.37 0.25 0.40 0.72 0.53 0.19 0.26 0.37 0.33 0.40
SALMON TOTALS OXBOW	9,639	35,379 	2,782	6,270 		0.36
BOISE R. PAYETTE	683 103	=	· -		175	0.11 0.12
STATEWIDE TOTALS	18,101	77,449	5,834	9,704	9,803	0.33

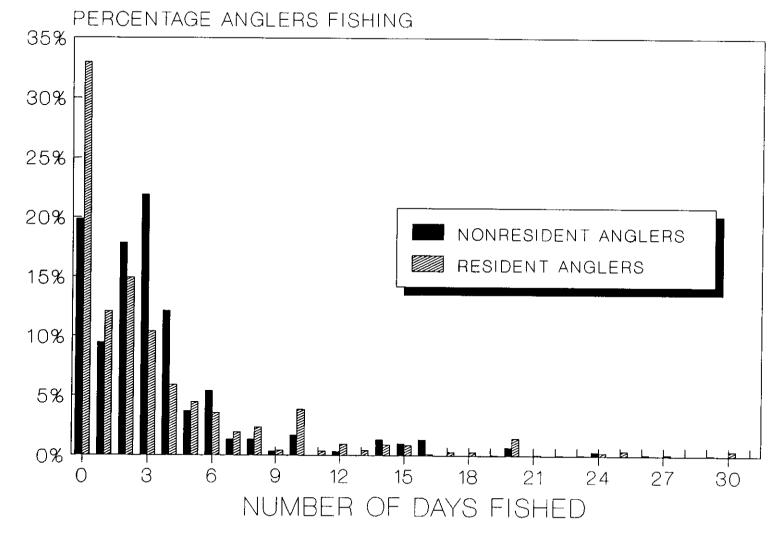


Figure 4. Percentage of resident and nonresident steelhead anglers fishing a given number of days, spring 1989.

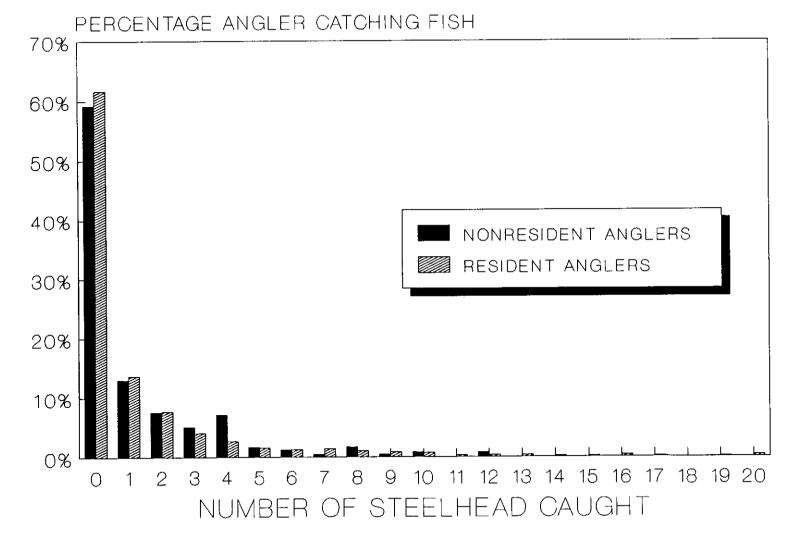


Figure 5. Percentage of resident and nonresident anglers catching a given number of steelhead, spring 1989

Figure 6. Percentage of resident and nonresident anglers harvesting a given number of steelhead, spring 1989.

Table 6. Total number of steelhead by section and month harvested by resident and nonresident anglers, spring 1989.

	FISH HARVESTED								
SECTION	JANUARY	FEBRUARY	MARCH	APRIL	TOTAL				
1 2	279 10	62 124	0 21	0	341 165				
SNAKE TOTALS	289	186	21	10	506				
3 4 5 6 7	703 21 62 10 0	652 52 217 42 21	879 62 900 196 331	383 83 321 21 341	218				
CLEARWATER TOTALS	796	984	2,368	1,149	5,297				
10 11 12 13 14 15 16 17 18 19 20	52 52 10 0 0 10 52 41 0 0	52 72 10 21 41 124 21 72 0 20 31	124 21 72 0 238 538 238 435 248 124 52	62 0 21 0 41 103 31 217 72 341 83	290 145 113 21 320 775 342 765 320 485 197				
SALMON TOTALS	248	464	2,090	971	3,773				
OXBOW BOISE PAYETTE	0 62 31	0 72 21	0 0 0	0 41 0	0 175 52				
STATEWIDE TOTALS	1,426	1,727	4,479	2,171	9,803				

Table 7. Estimated steelhead harvest by fish run year, 1976 to 1988 (the fish run year is calculated from June 1 to May 31). (CS = closed season and NA = no data available.)

	Fish run year												
Stream or section	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87	87-88	88-89
Salmon-10	627	837	CS	340	663	1,281	1,583	1,457	1,358	1,454	2,588	682	798
Salmon-11	353	1,039	CS	257	512	879	962	910	730	910	1,638	1,036	688
Salmon-12 & 13 comb.	354	1,055	CS	342	1,339	1,715	1.004	877	470	1,704	2,134	1,061	730
Salmon-14	710	1,718	CS	548	1,348	1,781	1,656	1,863	888	1,697	3,315	661	1,172
Salmon-15 & 16	711	2,886	162	1.024	2,670	3,165	5,991	9,586	2,327	7,569	11,656	2,500	3,693
Salmon-17	91	130	136	124	679	600	1,591	2,822	407	2,680	2,662	328	810
Salmon-18	25	12	CS	8	25	41	156	621	48	389	614	127	320
Salmon-19	12	40	CS	CS	CS	CS	305	629	108	1,601	1,573	150	512
Little Salmon	CS	CS	CS	CS	CS	cs	CS	CS	CS	93	877	439	224
Salmon-unknown	NA	NA		168	230	303	NA	NA	NA	NA	NA	NA	NA
SALMON TOTAL	2,883	7,717	$\frac{12}{310}$	2,811	7,466	9,765	13,248	18,765	6,336	18,097	27,057	6,983	8,947
Lower Clearwater	cs	. NA	1,921	cs	3,523	354	9,218	6,165	18,024	8,292	8,694	6,300	8,032
Upper Clearwater	CS	NA	253	CS	156	31	1,402	687	1,233	658	1,889	1,001	707
Clearwater-unknown	NA	NA	125	CS	217	12	0	0	NA NA	NA	NA	NA	NA
N. F. Clearwater	. 0	NA	484	CS	256	144	1,201	414	2,216	920	3,931	1,150	1,771
M. F. Clearwater	0	0	CS	CS	CS	CS	CS	CS	25	0	590	83	368
S.F. Clearwater tribs.	0	0		CS			CS	CS	284b	230	704	233	693
CLEARWATER TOTAL	$\frac{0}{0}$	$\frac{0}{14,157^a}$	2,783	$\frac{cs}{cs}$	$\frac{\text{CS}}{4,152}$	$\frac{\text{CS}}{541}$	11,821	7,266	21,782	$\frac{250}{10,100}$	15,808	8,767	11,571
Lower Snake	96	NA	cs	17	358	484	1,535	1,024	3,319	2,417	3,050	1,666	1,939
Upper Snake	50	NA			100	126	1,308	1,046	553	1,204	1,477	572	837
SNAKE TOTAL	146	NA	<u>cs</u> cs	$\frac{7}{24}$	458	610	2,843	2,070	3,872	$\frac{1,204}{3,621}$	4,527	2,238	2,776
Unknown streams	66	50	3	4	NA	NA	NA	NA	NA	767 ^b	508 ^b	NA	227 ^C
STATE TOTALS	3,095	21,924	$\frac{3}{3,096}$	2,839	12,076	10,916	27,912	$\frac{100}{28,101}$	31,990	32,585	47,900	17,987	23,521

^aIncludes main stem Clearwater and North Fork Clearwater rivers.

^bBoise River.

^CBoise & Payette rivers.

PREDICTDED STEELHEAD HARVEST FROM LOWER GRANITE DAM COUNTS

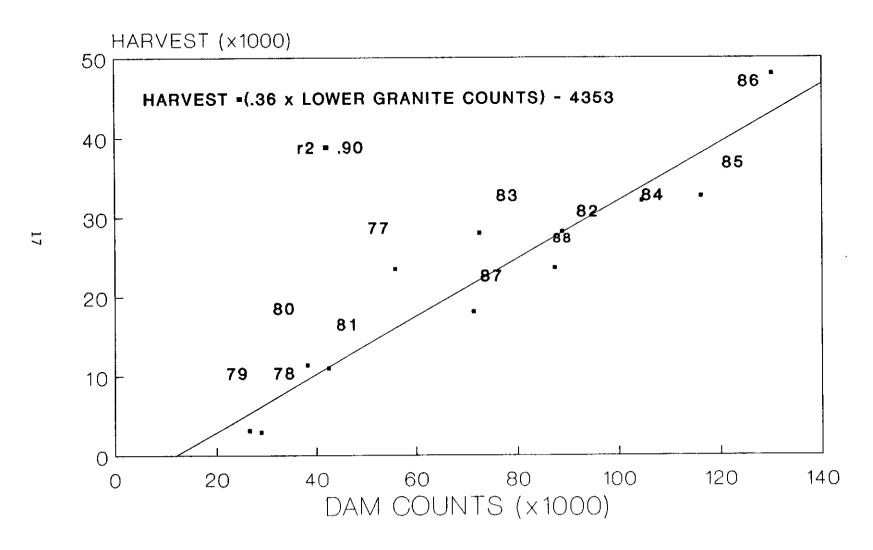


Figure 7. Steelhead harvest versus Lower Granite Counts for fish run years 1977 thru 1988.

Anglers released 40,288 steelhead composed of 26,737 (66.4%) wild fish and 13,551 (33.6%) hatchery fish. This follows a pattern in recent years of releasing more fish.

RECOMMENDATIONS

- 1. Calibrate the telephone survey for memory bias against ground census.
- 2. Analyze historic calendar year data as fish run year to provide information for better predictive models.

ACKNOWLEDGMENTS

I wish to thank Virgil Moore for his editorial comments. I also wish to express my sincere appreciation to Sharon Bushong who helped with the supervision of the telephone crew and data entry, for without her help and enthusiasm, this project would not have been completed with such accuracy and speed.

APPENDICES



August,1989

We are seeking information regarding steelhead fishing in Idaho during the 1989 spring steelhead season (January 1 through April 30, 1989). Your assistance in answering the following questions will help the future of steelhead fishing. Please take a few minutes to fill in the answers to the questions below and place this letter near your telephone. PLEASE DO NOT RETURN THIS LETTER BY MAIL (unless you have no telephone or do not wish to be contacted by telephone). In the near future, you will receive a telephone call asking the following questions:

Number of days fished	River	Section Number
		
Did you use a guide?		
Yes No		

Cecil D. Andrus / Governor Jerry M. Conley / Director



5.	If you caught and released steelhead, how many did you release, by river section	n?
	Number released	

Number released	
Hatchery fish Wild fish River	Section number

6. If you caught and kept steelhead, how many did you harvest by month and river section? (Check dates recorded on your steelhead permit.)

M	lonth	River	Section number
1.			
2.			
2			
4.			
5.			
7.			
9.			
1 1			
12			
1 2			
			
			
17			
18			
20			

Sincerely,

JMC:TM:bm R7FS030BM Appendix II. Telephone script.

Wello this is with the Idaho Department
Hello, this is with the Idaho Department of Fish and Game calling for
Your name was selected from among those who purchased a permit to fish for steelhead in fall of 1989 and I would like to ask you a few questions so we can estimate the catch of steelhead during the fall season.
Did you fish for steelhead in Idaho between September 1, and December 31, 1989?
[No]
I have no more questions. Thank you for your help.
[Yes]
How many days did you fish in each river section?
Days
Section#
Did you catch any steelhead including any that you might have released?
[No]
I have no more questions. Thank you for your time and assistance.
[Yes]
Did you catch and release any steelhead?
[Yes]
How many steelhead released were hatchery fish and how many were wild fish, by section.
If you caught and released hatchery steelhead, as evidenced by a missing adipose fin, from the mouth of the Salmon River to the mouth of the East Fork of the Salmon River (Sections 10 through 19), how many of them were over 31"?
[No]
[Go to next question.]
Did you catch and keep any steelhead during the 1989 fall season?
[Yes] What was the date and river section for each fish kept?
[No]
[Go to closing statement.]
These are all the questions I have. On behalf of the Idaho Department of

TM:mw R9FS016MW

Fish and Game, I thank you for your help.

STEELHEAD HOLES BY RIVER SECTION

SECTIONS

1. Snake River, below Salmon River:

Asotin, Heller Bar, Grande Ronde, Lime Point, Captain John Creek

2. Snake River, above Salmon River to Hells Canyon Dam:

Imnaha, Pittsburg Landing, Doug Bar

3. Clearwater River, below Orofino Bridge:

Orofino, Lewiston, Potlatch Creek, Hog Island, Lapwai Creek, Myrtle Beach, Cherry Lane, Lenore, Peck, McGill Hole, Pink House, Spalding Park, Slaughterhouse, Cat Hole, Tepee Hole, KOA, Bevenlins

4. Clearwater River, above Orofino Bridge:

Greer, Fish Hatchery Hole, Kamiah, Kooskia, Five-Mile, Six-Mile, Miller Hole, Sawmill

- 5. North Fork Clearwater River from mouth to Dworshak Dam
- **6.** Middle Fork Clearwater River:

Clearwater to Clear Creek

7. South Fork Clearwater River:

Mt. Idaho Bridge, Mile Post 21

10. Salmon River, below Whitebird Creek:

Cottonwood Creek, Graves Creek, Deep Creek, Hammer Creek, Divide Creek, Rice Creek, Pine Creek, Snow Hole, Slide Hole, Deer Creek Bridge

11. Salmon River, Whitebird Creek to Little Salmon:

Riggins, Whitebird Creek, Silver Bridge on Time Zone, Blackhawk Bar, Lucille, Slate Creek, Skookumchuck, Race, Fiddle, John Day Creek, Chair Creek, Riggins Boat Ramp

12. Salmon River, Little Salmon to Vinegar Creek:

Wind River, Vinegar Creek, Luke and French Creek, Spring Bar, Riggins Hot Springs, Allison Creek, Shorts Bar, Partridge Creek

13. Salmon River, Vinegar Creek to South Fork:

Shepp Ranch, Bull Creek, Warren Creek, Mann's Creek, South Fork Hole

14. Salmon River, South Fork to Middle Fork:

Mackay Bar, China Bar, Sabe Creek, Whitewater Ranch, Corn Creek, Chamberlain Creek, Buckskin Bills, Five-mile Creek, Bargamin Creek, (Salmon Falls - Boat), Long Tom Bridge, Big Mallard Creek, Little Mallard Creek, Bear Creek Hole, Smith Gulch

Appendix III. Continued.

15. Salmon River, Middle Fork to North Fork:

Owl, Pine, Spring Creek, Indian, Dump, Panther Creek, Deadwater, Shoup, Colson Creek, Rams Head Lodge, Dutch Oven, Cove Creek, Newland Ranch, Trapper Gulch, Ebenizer Flats,

16. Salmon River, North Fork to Lemhi River:

Ramshorn, Salmon, Carmen, Lemhi, Fourth of July Creek, Kriley, Red Bluff

17. Salmon River, Lemhi River to Pahsimeroi River:

Ellis Down to Lehmi, Pahsimeroi, Dug Out, Shoup Bridge, Williams Lake, Twelvemile Creek, Iron Creek, Hot Creek, Cronks Canyon, Boat Hole, Sevenmile Creek, Elk Bend, Midway

18. Salmon River, Pahsimeroi River to East Fork:

Challis, Warm Springs Creek, Bayhorse, Morgan Creek, Chivers Access, Highway 93 Bridge

19. Salmon River, above the East Fork:

Basin Creek Down, Sunbeam Dam, Clayton, Robinson Bar, Yankee Fork, Thompson Creek, Squaw Creek, Stanley, Valley Creek, Redfish Lake Creek, Rough Creek, Holman Creek, Deadmans Rock, Ranger Hole, Torreys

20. Little Salmon River.

Rapid River, Pollock, Stinky Hot Springs, Boulder Creek

- 27. Snake River, Oxbow:
- 28. Boise River:
- 29. Payette River:

DEDMIT VALUDATION

When a steelhead trout has been hooked, landed, and reduced to possession, the angler must immediately:

- · Completely remove one cumbered notch(*) from the
- · Look up the number code from the filver Location Code hat and write it in the space provided; and
- · Enfor the month and day the fish was caught.

"For example, a fish caught from the Salmon River between the Middle and North Forks on October 22 would be entered as:"

Flah	Month/Day	Location Code	
	10/22	_15	
	REMOVE NOTCH		

However, when a steelhead is released unharmed. as in catch and release lishing, the angler is not required to make an entry on the permit.



) STEELHEAD HARVEST SURVEY

Steelhead hervest and angler participation are eslimsted by a leiephone survey conducted within a taw weeks after the season closes. You may be called and asked about your effort and success. Please save your permit until 3 months after the season has closed or until you are contacted by an idaho Fish and Game caller.

SALMON RIVER BOATING PERMITS

Permits for boating the Salmon River between Corn Creek and Long Tom Bar from June 20 through September 7 are required. Contact the U.S. Forest Service, State Creek Ranger Station, for permit information -telephone 208-839-2211.

	RIVER LOCATION CODES
	SNAKE RIVER
	Snake River, below Salmon River,
	Including Clearwater River
	below the Memorial Bridge
	(U.S. 12) at Lewiston
	Snake River, above Salmon River
	Snake River, Oxbow2
	CLEARWATER RIVER
	Clearwater River,
	from Memorial Bridge
	(U.S. 12) at Lewiston to the
	Orofino Bridge 0:
	Clearwater River, above
	Orofino Bridge 0
	North Fork Clearwaler River
	South Fork Clearwaler River
	SALMON RIVER
	Salmon River, below Whilebird Creek
	Salmon River, Whitebird Creek to
	Little Salmon
	Salmon River, Little Salmon to
	Vinegar Creek
	Salmon River, Vinegar Creek to
	South Fork
	Salmon River, South Fork to
	Middle Fork
	Salmon River, Middle Fork to
	North Fork
	Salmon River, North Fork to
	Lemhi River16
	Salmon River, Lembi River to
	Pahsimerol River
İ	lo East Fork
	Salmon River, above the East Fork
ı	Common times, access and Cast Fulk
ļ	OTHEA
	Little Salmon River
ı	Rojan River 24



IT PAYS TO BE COURTEOUS

improved sinelihead runs in Idaho have produced more eager lishermen and subsequent problems with crowding and littering. You can help make everyone's outing more enjoyable by following a lew simple quidelines. PLEASE:

DO NOT LITTER. Put all refuse in appropriate receptacles or carry it out with you. Use sanitary facilities wherever possible

COOPERATE WITH OTHER SALITIES STYCE ANGLERS! Good sportsmanship dictates that you wait your turn to fish if another angler is lishing a hole first. Don't crowd in Boat englers should be careful not to cross the lines of or crowd bank societs. Fishermen on the bank need to recognize that hoals often must pass through narrow slots close to shore. Power boats need. to avoid floatboats and wading an-

glers and be aware of the impacts of wakes, speed

Litter, waste and sportsman conflicts may well effect future fishing opportunities. Help project your fishing and contribute to everyone's enforment by being courteous and responsible.



IDAHO DEPARTMENT OF FISH AND GAME JERRY M. CONLEY, DIRECTOR

for general intermed_{en so}m er write. Mete Separation of Pian and Gome, 600 S Syrner P. O. San 20 Marty, af A2707, phase (1884) 234-1766

Regional Division COLUM DALLING THE STATE COLUMN DALLING FOR OWN 23/2 Columnian 1999 Columnian de 1896 34 may FOR pas Adol 15/2 Week, housing Least-of the 23/2 80082 324 38 18 My Michigan M. Least-of the 23/2 My Michigan

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1988 IDAHO FALL STEELHEAD SEASONS AND REGULATIONS



GENERAL INFORMATION LICENSES - STEELHEAD PERMITS

Resident Fishing License	\$10.50
Nonresident Fishing License	
Steelhead Permit (Lie. Required)	\$ 5.50
Nonresident Salmon and	
Steelhead 3-dev License/Permit	\$20.50

Anyone, awapt those expressly exempt, must have a valid fishing license and steelhead permit to lish for, reduce to possession, or catch and release steethead.

Any person who does not qualify as a resident must purchase either a nonresident assaun fishing ilicense and a full-season steelhead permit or a nonresident 3 day fishing license with sleethead permit.

in order to qualify for resident status, a person must be domiciled in the state for at least six months.

Children (Including nonresident children) under the age of 14 are exempt from purchasing steelhead permite. They may lish without permits if they ere accompenied by a valid permit holder, provided that any fish caught must be recorded on the permit holder's card and counted in the permit holder's legal bag and possession limit.

A resident child under 14 may purchase a permit so that he may catch his or her own limit of steelhead.

cions

SEASONS AND LIMITS

 Daily bag, possession, and season limits for the Snake, Salmon, and Clearwater rivers shall not be construed as cumulative kimits. An angler may lake a total of 8 steethead during the 1988 Fall season.

SALMON RIVER from its mouth upstream to and including the Little Salmon River from its mouth upstream to the U.S. Highway 95 bridge near Smokey Road or Road.

Season: September 1, 1988 through December 31,

1988

Limits: 2 per day 4 in possession

6 per sesson

SALMON RIVER from the Little Salmon River upstream to Redfish Lake Creek.

Season: September 1, 1988 through December 31,

1986

Limits: 2 per day

4 in possession

6 per season

SPECIAL RESTRICTIONS:

- Only steelheed 31 Inches total length or under which have been marked by clipping the edipose lins (as avidenced by a heated scar) may be kept.
- Steelhead are the only geme fish that may be reduced to possession between Horse Creek and North Fork Salmon River during the steelhead sessor.

SNAKE RIVER from the Washington state line at the confluence of the Snake and Clearwater rivers to Helts Canyon Dam, including the Clearwater River from its mouth to the Memorial Bridge of U.S. Highway 12 at I aminton.

Season: September 1, 1988 through December 31,

Limits: 2 per day

4 in possession

Special Restrictions: Fishing from a boat within 150 yards of Hells Canyon Dam is PROMIBITED.

CLEARWATER RIVER AND MIDDLE FORK CLEAR-WATER RIVER from the Memorial Bidge of U.S. Highway 12 at Lewiston upstream to a posted line 150 yards downstream of the mouth of Clear Creek; South Fork of the Clearwater River from its mouth upstream

to the confluence of American and Red Rivers; and the North Fork of the Clearwater River from its mouth upstream to Dworshak Dam. Season: October 15, 1968 through December 31.

1988

Limits: 2 per day

4 in possession

Special Restrictions:

- Fishing from the shoreline along the perimeter of Dworshak National Fish Halchery is PROHIBITED.
- Fishing from motorized watercraft is PROHIBITED from the Clearwater River Bridge at Orolino upstream to the mouth of Clear Creek.
- Fishing from any watercraft is PROHIBITED between a posted line approximately 150 yards upstream from the mouth of the North Fork of the Clearwater River and the Ahsahka Highway Bridge.



FISHING IN BOUNDARY WATERS

SNAKE RIVER BETWEEN DAHO AND OREGON OR WASHINGTON: The holder of a valid Idaho lishing license may fish the Snake River where it forms the boundary between the states of Idaho and Oregon or Washington, subject to the fish end game laws of Idaho but may not fish from the shoreline, stoughs or tributaries on the Oregon or Washington side. An Oregon or Washington side. An Oregon or Washington side and restrictions with reference to the Idaho side.

Any angler who lishes on the Snake Filter or any other water forming an idaho boundary is entitled to only one daily bag limit per day regardless of the number of licenses he may possess.

- STEELHEAD -

"Steemhead" are defined as rainbow trout over 20 inches in length taken from the Snake River drainage below Hells Canyon Dam, the Salmon River Drainage (excluding takes), and the Clearwater River drainage (excluding takes) and the Clearwater River drainage (excluding that portion above Dworshek Dam, and lakes).

IDENTIFICATION OF SPECIES IN POSSESSION AND DURING TRANSPORTATION OR SHIPMENT

No person shall have in the field or in transit any steelhead trout from which the head or tall has been removed.

METHODS OF TAKE

- No person shall kill or retain in possession any steelhead which has been hooked other than in the head. Any steelhead hooked other than in the head must be released unharmed.
- Steelhead caught in a legal manner must be either released or killed immediately after landing.
- Steethead may be taken only with a barbless hook. Bending the barb down to the shank of a single, double, or treble hook will meet this requirement.
- All lish that are hooked, landed, and not immediately released shall be counted in the Ilmits of the person taking the fish

WHICH STEELHEAD CAN YOU KEEP?

Only steelhead with a missing adipose tin (as avidenced by a healed scar) may be kept.



IS YOUR STEELHEAD MISSING A LEFT VENTRAL FIN?

If it is, here's why:

This missing felt ventral in signals the presence of a small coded wire tag planted in the nose cartilage of the fish. The tag is used in a variety of experiments designed to aid in the perpetuation of steelhead runs in klato.

The Department is no longer requesting anglers to voluntarily turn in heads of fish with missing ventral lins However, if a Oppartment field worker contacts you and requests to remove the shoul, your cooperation will be appreciated.

CATCHLAND-RELEASE

 Any person may fish for steehead on a catch-andrelease basis August 1 through December 31 in any water open to fishing for other species EXCEPT in the Middle and South Forks of the Salmon River and their tributaries.

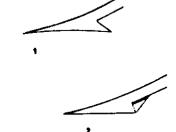
Only artificial tures or files with barbless hooks are permitted when fishing on a calch-and-release basis. All steelhead caught in catch-and-release waters shall be released unharimed immediately.

However, once an angler has attained his bag, possession or season limit on those waters with steehead limits he must cease lishing for steethead including catch and release lishing.

TO RELEASE FISH UNHARMED:

- 1. Do not squeeze the fish.
- 2. Do not touch the gitts or hold fish by gift covers.
- 3. Leave the fish in the water white removing the hook.
- Use long-nosed pilers to rotate the hook from the fish's mouth. If the hook cannot be easily removed, cut the leader and release the lish.
- If the lish is exhausted, hold it in an upright position in the water and gently move it back and forth until it is able to swim sway.

Using these precautions will permit the fish to survive for enother day



Barbless hooks are usually not difficult to remove from fish Barb (1) is easily bent down (2) by moderate pressure applied with pilers.

Appendix V Total number of resident steelhead anglers, days fished, fish caught, and catch rate in fall 1988 by section and drainage.

SECTION	ANGLERS	DAYS FISHED	HATCHERY FISH RELEASED	WILD FISH RELEASED	FISH HARVESTED	FISH PER DAY		
1	1,714	9,170	526	1,968	1,099	0.392		
2	762	3,710	308	236	554	0.296		
SNAKE						·		
TOTALS	2,476	12,880	834	2,204	1,653	0.364		
3	5,197	26,748	2,041	3,528	4,018	0.358		
4	717	2,467	73	200	335	0.246		
5	490	1,914	27	36	199	0.137		
6	181	680	9	63	81	0.225		
7	63	317	0	0	0	0.000		
CLEARWATER								
TOTALS	6,648	32,126	2,150	3,827	4,633	0.330		
10	934	4,381	190	644	408	0.283		
11	1,252	5,197	998	1,497	471	0.571		
12	1,025	3,165	236	608	353	0.378		
13	481	1,306	82	263	135	0.368		
14	934	3,864	299	1,551	798	0.685		
15	2,812	12,707	998	2,458	1,987	0.428		
16	526	2,095	118	472	227	0.390		
17	290	1,206	27	127	45	0.165		
18	63	463	0	0	0	0.000		
19	136	299	63	27	27	0.391		
20	91	363	9	9	27	0.124		
SALMON			·			<u> </u>		
TOTALS	8,544	35,046	3,020	7,656	4,478	0.432		
OXBOW	0	0	0	0	0	0.000		
BOISE R.	9	118	0	0	0	0.000		
STATEWIDE								
TOTALS	17,677	80,170	6,004	13,687	10,764	0.380		

Appendix VI Total number of nonresident steelhead anglers, days fished, fish caught, and catch rate in fall 1988 by section and drainage.

	_						
SECTION	ANGLERS	DAYS FISHED	HATCHERY FISH RELEASED	WILD FISH RELEASED	FISH HARVESTED	FISH PER DAY	
1 2	599 254	3,156 834	118 100	553 109		0.371 0.392	
SNAKE TOTALS	853	3,990	218	662	617	0.375	
3 4 5 6 7	1,878 163 63 9	7,746 816 190 54	771 45 190 0	1,197 145 73 0		0.434 0.422 1.763 0.333 0.000	
CLEARWATER TOTALS	2,122	8,815	1,006	1,415	1,641	0.461	
10 11 12 13 14 15 16 17 18 19 20	200 172 136 73 118 490 136 18 0	726 571 726 136 354 1,633 508 27 0 73	54 0 118 9 54 154 100 0 0	100 63 517 27 218 299 45 0 0	72 90 18 54 299 63 0 0	0.350 0.236 0.999 0.397 0.921 0.461 0.409 0.000 0.000	
TOTALS	1,370	4,763	489	1,269	696	0.515	
OXBOW BOISE R.	0	0	0	0		0.000	
STATEWIDE TOTALS	4,345	17,568	1,713	3,346	2,954	0.456	

Appendix VII Total number of steelhead harvested in fall 1988 for resident anglers by section and month

FISH HARVESTED					
SECTION	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
1	73	200	463	363	1,099
2	9	82	254	209	554
SNAKE		····			
TOTALS	82	282	717	572	1,653
3	209	907	1,986	916	4,018
4	0	109	190	36	335
5	0	36	154	9	199
6	0	63	0	18	81
7	0	0	0	0	0
CLEARWATER TOTALS	209	1,115	2,330	979	4,633
					4,055
10	54	100	172	82	408
11	27	172	218	54	471
12	0	127	163	63	353
13	27	54	54	0	135
14	0	254	526	18	798
15	18	862	1,016	91	1,987
16	9	91	91	36	227
17	0	27	18	0	45
18	0	0	0	Ō	0
19	0	9	9	9	27
20	0	18	9	0	27
SALMON			 _		
TOTALS	135	1,714	2,276	353	4,478
OXBOW	0	 0	0	0	0
BOISE	0	0	0	0	0
STATEWIDE					
TOTALS	426	3,111	5,323	1,904	10,764

Appendix VIII Total number of steelhead harvested in fall 1988 for nonresident anglers by section and month

FISH HARVESTED

SECTION	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
1	9	181	218	91	499
2	0	36	9	73	118
SNAKE TOTALS	9	217	227	164	617
3	0	454	680	263	1,397
4	0	27	118	9	154
5	0	0	36	36	72
6	0	0	18	0	18
7	0	0	0	0	0
CLEARWATER	·				
TOTALS	0	481	852	308	1,641
10	0	82	18	0	100
11	0	45	27	0	72
12	0	45	45	0	90
13	9	0	9	0	18
14	0	54	0	0	54
15	9	54	200	36	299
16	0	18	45	0	63
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
SALMON	*****				
TOTALS	18	298	344	36	696
OXBOW	0	0	0	0	0
BOISE	0	0	0	0	0
STATEWIDE					
TOTALS	27	996	1,423	508	2,954

Month/Day Fish Code 15 01/22 REMOVE NOTCH

PERMIT VALIDATION

· Completely remove one numbered notch from the

Look up the number code from the River Location

"For example, a lish caught from the Salmon Pitver between the Middle and North Forks on January 22

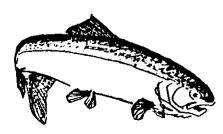
Location

Code list and write if in the space provided; and

· Enter the month and day the fish was caught.

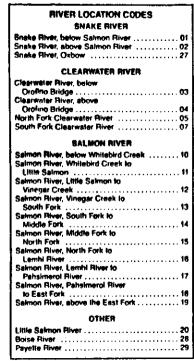
When a steelhead troul has been hooked, landed, and reduced to possession, the angler must

However, when a sleethead is released unharmed, as in catch-and-release lishing, the angler is not required to make an entry on the permit.



STEELHEAD HARVEST SURVEY

Steelhead harvest and anoter participation are estimated by a telephone survey conducted within a few weeks after the season closes. You may be called and asked about your effort and success. Please save your permit until 3 months after the season has closed or until you are contacted by an Idaho Fish and Game caller.





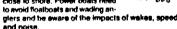
REPORT POACHING! IT MEANS MORE FISH FOR LEGAL SPORTSMEN.

IT PAYS TO BE COURTEOUS

improved steelhead runs in Idaho have produced more eager (ishermen and subsequent problems with crowding and littering. You can help make everyone's outing more enjoyable by following a Inw simple guidelines, PLEASE:

DO NOT LITTER. Put all refuse in appropriate receptacles or carry it out with you. Use sanitary facilities wherever possible.

COOPERATE WITH OTHER MALITYRA STITES ANGLERSI Good sportsmanship dictates that you wait your turn to fish if another angler is fishing a hole first. Don't crowd in. Boat englers should be careful and to cross the lines of or crowd bank anglers. Fishermen on the hank need to recognize that boats often must pass through narrow slots close to shore. Power boats need



Litter, weste and aportsman conflicts may well affect future fishing opportunities. Help protect your fishing and contribute to everyone's enforment by being courteous and responsible.

For managed information, cuit or write; Idaha Dagarima Fish and Game, 400 S. Welnut, P. O. Sox 25, Soles, ID 83787; me (209) 334-3700.

Regional Offices 765-3111 2 120 Government Was Conv. d'Alene, ID 83614 LEWISTON 742-4562 1540 Warner Avenue Leanston, ID 83501 BOISE 134-3725 100 W 44th Street Borse 1D 83714 Mr.CA11.610.6117 P.O. Post 905 McCall, ID 83838

#FROME 124,4198 868 East Main Jeroma III 83338 POCATELLO 212-A789 1345 Reston Fload Por arello, IO 81204 IDAHO FALLS 523-7783 15 IS I Income Good Idaho Falls ID 83401 BALMON 758-2271 P D Box 1336 Salmon, ID 83467

IDAHO DEPARTMENT OF FISH AND GAME JERRY M. CONLEY, DIRECTOR

1989 IDAHO SPRING STEELHEAD SEASONS AND REGULATIONS



GENERAL INFORMATION

LICENSES - STEELHEAD PERMITS

Anyone, except those expressly exempt, must have a valid fishing license and steelhead permit to fish for. reduce to possession, or catch and release steelhead.

Any person who does not qualify as a resident must purchase either a nonresident season fishing license and a full-season steelhead permit or amonresident salmon and steelhead 3-day license/permit.

In order to qualify for resident status, a person must he domiciled in the state for at least six months.

Children (including nooresident children) under the ege of 14 are exempt from purchasing steelhead permits. They may fish without permits if they are accompanied by a valid permit holder, provided that any fish caught must be recorded on the permit holder's card and counted in the permit holder's legal beg and possession kmil.

A resident child under 14 may purchase a permit so that he may catch his or her own limit of steefhead. Any person who does not qualify as a resident must have a nonresident season fishing license before purchasing a steelhead permit.

Resident Fishing License	. \$11.0
Nonresident Fishing License	
Steelhead Permit (Lic. Required)	\$ 6.0
Nonresident Salmon and	
Conthead 2 day I leanes/Parmit	831 N

SALMON RIVER BOATING PERMITS

Permits for boating the Salmon River between Corn Creek and Long Tom Bar from June 20 through September 7 are required. Contact the U.S. Forest Service, Slate Creek Ranger Station. for permit information - telephone 208-639-2211.

Immediately

permit:

would be entered as "

. Daily bag, possession, and season limits for the Snake Salmon and Clearwater rivers are not cumutative knuts. For example: an angler may take a total of 10 steelment during the 1989 spring season. However note 6 of these lish may be taken from the Boise River Pavette River or the Salmon River upstream from 100 yards above the mouth of the Pahamara Awar

SALMON RIVER from its mouth upstream to Long Tom Creek 11/4 mile upstream from the Middle Fork Salmon River I

Season: January 1, 1969 through March 31, 1989 Limits: 2 per day, 4 in possession, 10 per season Special Restriction:

. In that por iton of the Salmon River upstream from the mouth of the Little Salmon River to Long Tom. Creek poly steelhead 31 inches or less in tenoth may be kept.

LITTLE SALMON RIVER from its mouth upstream to the Highway 95 bridge near Smokey Boulder Road. Season: January 1, 1989 through April 30, 1989 Limits: 2 per day, 4 in possession, 10 per season

SALMON RIVER from Long Yorn Creek (1/4 mile uostream from the Middle Fork Salmon River) to 100 yards upstream from the mouth of the Pahsimeror

Season: January 1, 1989 through April 30, 1989 Limits: 2 per day, 4 in possession, 10 per sensors Special Restrictions:

- · Only steelhead 31 inches or less may be kept.
- . Steelhead are the only game fish that may be reduced to possession between Horse Creek and North Fork Salmon River during steelhead

SALMON RIVER from 100 yards above from the mouth of the Pahsimeror River upstream to the Highway 75 bridge over the Salmon River aust above the East Fork of the Salmon River.

Season: January 1, 1989 through April 30, 1989. Limits: 2 per day, 4 in possession, 6 per season Special Restriction:

· Only steelhead 31 inches or less may be kept.

SALMON RIVER from the Highway 75 bridge just above the East Fork Salmon River upstream to Redfish Lake Creek

Season: January 1, 1989 through April 30, 1989 Limits: 2 per day, 4 in possession, 6 per season SNAKE RIVER from the Washington state line at the confluence of the Snake and Clearwater rivers upstream to Oxbow Dam, including that portion of the Clearwater River from its confluence with the Snake River costream to the Memorial Burdge of U.S. Highway 12 at Laureton

Season: January I, 1989 through April 30, 1989 Limits: 2 per day, 4 in possession, 10 per season

CLEARWATER RIVER AND MIDDLE FORK CLEAR. WATER RIVER from the Memorial Bridge of U.S. Highway 12 at Lewiston upstream to a purited line 150 yards downstream of the mouth of Clear Creek, North Fork Clearwater River from its mouth unctream to Dworshall Dam; South Fork Clearwater River from its mouth upstream to the confluence of American and Red rivers.

Season: January 1, 1989 through April 30, 1989 Limits: 2 per day, 4 in possession, 10 per season

- Special Restrictions: Fishing from the shoreline along the perimeter of Dworshak National Fish Hatchery is prohibited.
- · Fishing from any watercraft is prohibited between a posted line approximately 150 yauds upstream from the mouth of the North Fork Clearwater River and the Ahsahka highway Bridge.
- · Fishing from motorized watercraft is prohibited from the Clearwater River Bridge at Orolino upstream to the mouth of Class Creek.

BOISE RIVER from its mouth upstream to Barber Dam. Season: January 1, 1969 through April 30, 1989 Limits: 2 per day, 4 in possession, 6 per season

PAYETTE RIVER from its mouth upstream to Black Canyon Dam.

Season: January 1, 1989 through April 30, 1989 Limits: 2 per day, 4 in possession, 6 per season

FISHING IN BOUNDARY WATERS SNAKE RIVER BETWEEN IDAHO AND OREGON OR

WASHINGTON: The holder of a valid Idaho lishing ticense may lish the Snuke River where it forms the boundary between the states of idaho and Oregon or Washington, subject to the fish and game laws of Idaho but may not fish from the shoreline, sloughts or tribularies on the Oregon or Washington side. An Oregon or Washington Icense holder has the same rights and restrictions with reference to the Idaho side.

Any angler who listics on the Snake River or any Other water furming an Idaho boundary is entitled to only one daily bag limit per day regardless of the number of Iconses he may possess.

- STEFLHEAD -

"Steelhead" are delined as rainbow trout over 20 inches in length which are caught in the Salmon River drainage, the Snake River drainage below Oxtow Dam the Clearwater River drainage the Bruse River from its mouth unstream to Barber Dam and the Pavette River from its mouth unstream to Black Canvon Dam Rainbow trout over 20 inches in length within takes of these drainages, as well as the North Fork of the Clearwater River dramage above Dworshak Dam are not steelhead

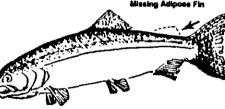
METHODS OF TAKE

· Steelhead may be taken only with barbless hooks. Bending the barb(s) down to the shank of a single. double, or trable hook will meet this recurrement.

WHICH STEELHEAD CAN YOU KEEP?

Only steel wad with a missing adipose fin (as evidenced by a healed scar) may be kept. Certain sections of the Salmon River have a 31-inch maximum length limit. See "Seasons and Limits."

Missing Adioose Fin



OTHER REGULATIONS

- No person shall kill or retain in possession any sleafhead which has been nooked other than in the head. Any steellinead hooked other than in the head must be released unharmed
- Any steelhead caught in a legal manner must be either released or killed immediately all in it is landed.
- · All fish that are hooked, landed, and not immediately released shall be counted in the limits of the person booking the lish
- · Once an angler has attained his bag, possession or seuson limit on those waters with steelhead limits, he must cease fishing for steelhead, including catch-andraleasa lishing

IDENTIFICATION OF SPECIES IN POSSES-SION AND DURING TRANSPORTATION OR **SHIPMENT**

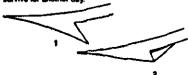
Alonescon shall have in the field or in transit sou significant from which the head or tail has been removed.



TO RELEASE FISH UNHARMED:

- 1. Do not source the lish.
- Do not touch the gitts or hold lish by gill covers.
- Leave the fish in the water while removing the hook. Use long-nosed pliers to rotate the hook from the lish's mouth. If the hook cannot be easily removed. cut the leader and release the lish.
- If the lish is exhausted, hold if in an upught costion In the water and gernly move it back and forth until it is able to swim away.

Using these preceutions will permit the fish to survive for another day.



Barbless hooks are usually not difficult to remove from fish, Baib (1) is easily bent down (2) by moderate pressure applied with pliers.

Appendix X Total number of resident steelhead anglers, days fished, fish caught, and catch rate in spring 1989 by section and drainage.

SECTION	ANGLERS	DAYS FISHED	HATCHERY FISH RELEASED	WILD FISH RELEASED	FISH HARVESTED	FISH PER DAY
1	517	2,617	0	352		0.24
2	372	1,169	145	41	134	0.27
SNAKE TOTALS	889	3,786	145	393	413	0.25
3	2,317	12,693	745	1,397	1,914	0.32
4	600	2,255	52	259		0.21
5	1,169	5,379	931	434		0.44
6	383	2,152	21	72		0.12
7	528	4,117	424	124		0.30
CLEARWATER						
TOTALS	4,997	26,596	2,173	2,286	3,891	0.31
10	248	1,603	41	186	280	0.32
11	724	2,379	248	497		0.37
12	403	1,148	41	145		0.22
13	145	745	124	166		0.42
14	393	1,728	93	714	258	0.62
15	1,665	5,731	1,014	1,407	630	0.53
16	1,221	4,841	52	569		0.19
17	1,459	6,424	248	693	744	0.26
18	859	3,383	321	641	310	0.38
19	1,014	3,238	197	445	434	0.33
20	248	931	52	134	197	0.41
SALMON						
TOTALS	8,379	32,151	2,431	5,597 	3,392	0.36
OXBOW	0	0	0	0	0	0.00
BOISE R.	683	4,314	279	0	_	0.11
PAYETTE	103	424	0	0	52	0.12
STATEWIDE				 		
TOTALS	15,051	67,271	5,028	8,276	7,923	0.32

Appendix XI Total number of nonresident steelhead anglers, days fished, fish caught, and catch rate in spring 1989 by section and drainage.

SECTION	ANGLERS	DAYS FISHED	HATCHERY FISH RELEASED	FISH	FISH HARVESTED	FISH PER DAY		
1	93	341		31		0.27		
2	62	279	207	352	31	2.11		
SNAKE TOTALS	155	620	207	383	93	1.10		
3	734	3,041	72	207	703	0.32		
4	166	455	0	0	62	0.14		
5	559	2,017	145	145	517	0.40		
6	124	693	31	10		0.21		
7	52	124	0	10		0.24		
CLEARWATER								
TOTALS	1,635	6,330	248	372	1,406	0.32		
10	31	41	0	0	10	0.24		
11	72	114	0	21	0	0.18		
12	41	145	0	21	41	0.43		
13	10	31	0	0	0	0.00		
14	103	321	114	228	62	1.26		
15	341	1,045	155	238	145	0.51		
16	238	683	41	31	41	0.17		
17	41	72	0	10	21	0.43		
18	124	269	0	52	10	0.23		
19	238	486	41	72	51	0.34		
20	21	21	0	0	0	0.00		
SALMON					· <u></u>			
TOTALS	1,260	3,228	351	673	381	0.44		
OXBOW	0	0	0	0	0	0.00		
BOISE R.	0	0	0	0	0	0.00		
PAYETTE	0	0	0	0	0	0.00		
STATEWIDE								
TOTALS	3,050	10,178	806	1,428	1,880	0.40		

Appendix XII Total number of steelhead harvested in spring 1989 for resident anglers by section and month

FISH HARVESTED JANUARY FEBRUARY MARCH APRIL _____ 217 62 0 0 279 SNAKE TOTALS 217 165 21 10 413 610 466 600 238 21 21 52 62 62 207 507 207 10 21 134 0 0 21 321 331 238 1,914 983 CLEARWATER 703 736 1,614 838 3,891 TOTALS 52 52 114 62 280 52 72 21 0 145 72 21 0 10 31 21 21 0 0 176 41 486 72 217 21 414 217 31 31 52 SALMON 248 382 1,883 879 3,392 TOTALS 0 0 0 0 62 72 0 41 OXBOW BOISE 31 21 PAYETTE STATEWIDE

TOTALS

1,261 1,376 3,518 1,768 7,923

Appendix XIII Total number of steelhead harvested in spring
1989 nonresident anglers by section and month

FISH HARVESTED

SECTION	JANUARY	FEBRUARY	MARCH	APRIL	HARVESTED
1	62	0	0	0	62
2	10	21	0	0	31
SNAKE		· <u> </u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
TOTALS	72	21	0	0	93
3	93	186	279	145	703
4	0	31	10	21	62
5	0	10	393	114	517
6	0	21	62	21	104
7	0	0	10	10	20
CLEARWATER	-	·	77.		
TOTALS	93	248	754	311	1,406
10	0	0	10	0	10
11	0	0	0	0	0
12	0	0	41	0	41
13	0	0	0	0	0
14	0	0	62	0	62
15	0	62	52	31	145
16	0	10	21	10	41
17	0	0	21	0	21
18	0	0	0	10	10
19	0	10	0	41	51
20	0	0	0	0	0
SALMON		<u>.</u>			
rotals	0	82	207	92	381
OXBOW	0	0	0	0	0
BOISE	0	0	0	Ō	ō
PAYETTE	0	0	0	0	0
STATEWIDE				·	
TOTALS	165	351	961	403	1,880

Submitted by:

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